

NBF163SY

FITTING INSTRUCTIONS

FORD RANGER MKII 08/15-08/18 76MM NUDGE BAR VEHICLE FRONTAL PROTECTION SYSTEM (VFPS) FOR AIR BAG & ADR COMPLIANT VEHICLES

Ensure these instructions are left with the vehicle owner and/or operator

Check installation hardware before commencing.

1. Lift bonnet
2. Remove four plastic push pull clips from radiator cover on top of grille. Remove radiator cover by sliding hand between grille and radiator support to release clips from front of cover. **See figure 1.**
3. Under front of guards, remove four plastic screw clips and one 8mm head screw from area at rear of bumper / guard join. Pull inner guards away from bumper. **See figure 2.** Disconnect fog lights and parking sensor loom (left hand side of vehicle).
4. From top of grille near headlights remove two 10mm head bolts each side. Gently unclip grille from headlight. Release clips on each side of the grille by reaching through the inner guard and pressing the three clips forward while applying pressure on the grille. From in front of the car reach behind grille and unclip the six clips along the bottom of the grille behind the bumper. Remove grille. **See figure 3** for clip placement.
5. Under front of bumper, remove four 10mm head bolts. **See figure 4.** From on top of the bumper remove four plastic push pull clips.
6. Gently pull bumper away from guard to release plastic bumper clips. Remove bumper from vehicle.
7. From underneath the vehicle loosen only the two rear 15mm bolts from the under belly guard. Completely remove the front two 15mm bolts. Slide the guard towards the front of the vehicle and remove.
8. Remove four plastic push pull clip from front plastic support on bumper support. Remove plastic support. **See figure 5.**
9. Unclip connector and remove sonar box. **See figure 6. Caution needs to be taken not to drop or damage this unit in any way.**
10. Remove two plastic push pins from plastic air dam behind the bumper support and four 15mm head bolts from front of bumper support. Remove bumper support.
11. Remove plastic air dams, two 8mm head bolts per side.
12. Loosely install ECB steel mounting bracket (supplied) using the original 15mm head bolts in the front and M10 x 40 bolts, flat washers, spring washers and nuts (supplied) through the chassis rail. It is important that the mounting bracket is level and lined up square with the vehicle body. **See figure 7. Tighten bolts and recheck position.**
13. **NOTE:** Should the chassis mount not be level and square, a hammer may need to be used to realign the front of the chassis at the connection points on the vehicle to achieve a level and aligned mount.

14. Trim plastic air dam to fit around the ECB steel mounting bracket. **See figures 8 and 9.** Refit plastic air dam in reverse of step 11.
15. Fit ECB sonar mounting bracket (supplied) onto the ECB steel mounting bracket using the two M8 x 25 bolts, spring washers and flat washers (supplied). **See figure 10.**
16. Bolt sonar box onto sonar mount using M6 x 50 bolts, flat washers and Nyloc nuts (supplied). Ensure the front of the sonar box is vertical and straight to front of vehicle. **Install the Perspex to the front of the sensor using nuts and flat washers to space the Perspex away from the front of the sonar box.** **See figure 11** Use Nyloc nuts as final nuts onto Perspex cover. Do not over tighten as Perspex could crack. **See figure 11.**
17. Cut the lower black grille to allow mount to protrude from bumper. Use template supplied. **See figure 12.**
18. Remove the centre parking sensors from the rear of the plastic bumper. Extend the passenger side centre sensor harness using the 100mm long 3 core wire and solder joiners (supplied), seal the joins with electrical tape. This will allow the harness to be moved toward the drivers side of the vehicle and allow approximately 60mm of harness to hang outside of the bumper. Hang sensor plugs to outside of bumper.
19. Install bumper in reverse of steps 2 through to 8.
20. Install the parking sensors removed from the plastic bumper into the holes in the lower cross plate of the protection bar. Ensure sensor is clipped in fully.
21. Attached ECB Protection Bar to ECB steel mounting bracket using four M10 x 40 bolts, flat washers, spring washers and nuts (supplied). Align Protection Bar with vehicle and tighten all bolts. **See figure 13 for front view and figure 14 for side view.**
22. Install under body guard to vehicle using original equipment bolts into rear of ECB steel mounting bracket.

ENSURE NUMBER PLATE IS CLEARLY VISABLE

Note: When fitting/refitting the licence plate to the vehicle, ensure there is no obstruction to licence plate vision in accordance with local authorities. If required relocate licence plate to an alternate location.

Further VFPS Notes:

- a) Do not attach VFPS to the vehicle using anchorages not intended for this purpose (e.g. engine mounting bolts).
- b) Do not use this product for any vehicle make or model, other than those specified by the VFPS manufacturer.
- c) Do not remove the plaque or label from the VFPS.
- d) Do not modify the structure of the VFPS in any way.
- e) No accessory or fitment should project forward of the VFPS forward profile.
- f) **ENSURE THESE INSTRUCTIONS ARE LEFT WITH VEHICLE OWNER AND/OR OPERATOR.**

IMPORTANT INFORMATION

Periodically check bolts and nuts for correct tightness, especially if travelling on rough roads

FITTING KIT

1 – ECB steel mounting bracket	2 – M8 x 25 bolts
1 – ECB sonar mounting bracket	2 – M8 flat washers
1 – Perspex cover 210 X 100 X 2mm (NBF160SY_A2PL)	2 – M8 spring washers
Place Perspex in own bag. Do not package with Bolts and nuts.	3 – M6 x 50 bolts
6 – M10 x 1.5 x 40 bolts	18 – M6 flat washer
12 – M10 flat washers	12 – M6 nyloc nuts
6 – M10 spring washers	1 – 100mm length, 3 core wire
6 – M10 x 1.5 nuts	6 – Solder Joiners

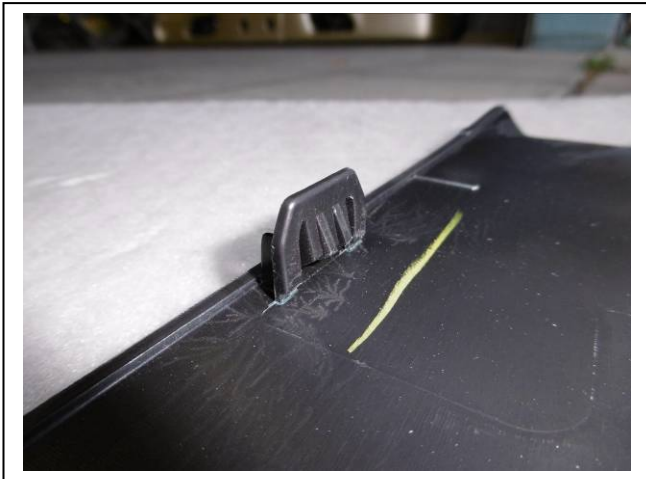


Figure 1



Figure 2

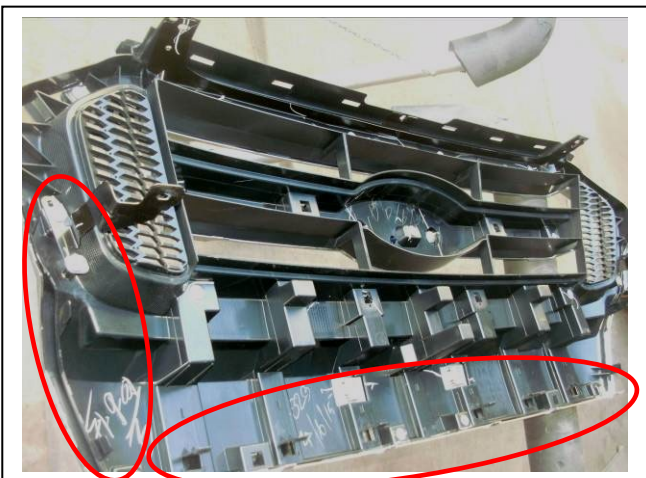


Figure 3



Figure 4

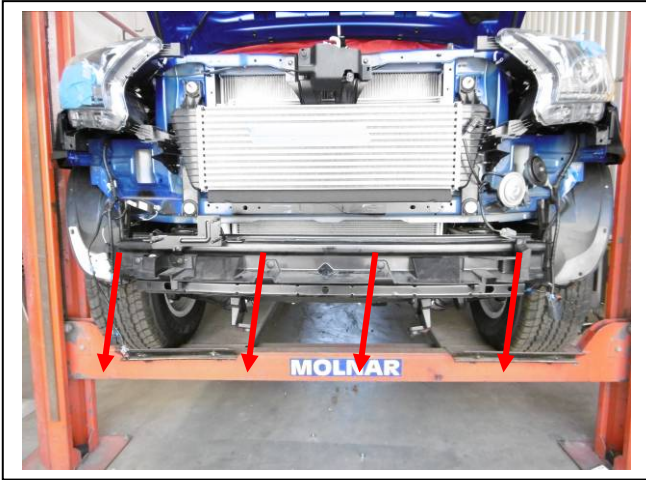


Figure 5



Figure 6



Figure 7



Figure 8

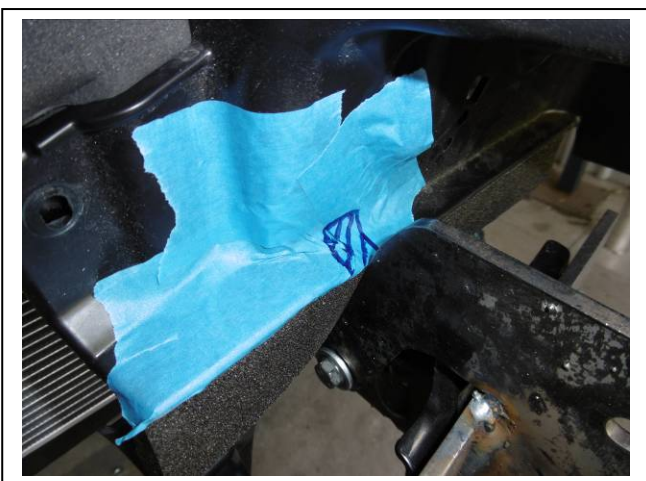


Figure 9



Figure 10



Figure 11



Figure 12



Figure 13



Figure 14

Thank you for purchasing an ECB Product

Please ensure that you read the below and complete the warranty registration.

Vehicle Owner / Operator Responsibilities and Product Care

Important Information

It is the responsibility of the vehicle owner and operator to ensure all nuts and bolts are checked periodically, especially when travelling on corrugated roads. Please ensure these are tightened as per the steps in the provided fitting instructions.

While ECB products are manufactured from high tensile alloy the vehicle owner / operator must check any steel mounting brackets or steel auxiliary parts for signs of corrosion. If you find any corrosion, please contact ECB Pty Ltd to discuss an appropriate solution – 1800 069 145 or www.ecb.com.au.

Product Care

Polished Products

Being a premium mirror polished finish, regular maintenance will be required to keep that iconic ECB shine. We recommend using our own brand of Aluminium Polish. This formula has been tried and tested and in our opinion is the world's best standard.

Directions: Apply a small quantity of Aluminium Polish to a clean soft cloth and rub the metal surface. The longer the rubbing the brighter the surface becomes. Wipe off Aluminium Polish with clean soft cloth. Also suitable for motorised buffing machines. Note: There are more specific details on the polish bottle. Please read before use.

Powder Coated Products

Our powder coated finishes are very low maintenance. In fact, there is actually very little you will ever need to do for this product. Just clean it as you would your car and it will stay looking good as new.

ECB Aluminium Polish

When you're looking for that showroom finish look for your polished automotive products, you can depend on the no compromise quality of East Coast Bullbars Aluminium Polish. This specifically designed product is the best polish available and we guarantee that this \$#!+ works. Within our decades of manufacturing polished alloy products, we have trialled a large range of different polishes on the market and believe without a doubt that nothing beats the finish quality of East Coast Bullbars Aluminium Polish.

East Coast Bullbars Aluminium Polish is excellent for use by hand and is ideal for polished bullbars, nudge bar and stainless-steel products. This polish will clean, polish and protect your product from the elements whilst bringing your products back to that showroom finish look.





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Better!**

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P: 07 3897 5700
F: 07 3811 6480
E: info@ecb.com.au
W: ecb.com.au
W: customalloy.com.au



Warranty Registration

Please Register your purchase online www.ecb.com.au/warranty-registration
If you have any questions, please contact our national office on 1800 069 145 or www.ecb.com.au

Or post the below information back to ECB, PO Box 122, Margate, QLD 4019.

Contact Details

Name:	
Address:	
Email:	
Phone:	

Purchase Details

Purchased from:	
Date of Purchase:	

Product Details

(You can find this information on the silver label of your ECB Product)

Part Number:	BN112SY
Work Order Number:	

By submitting this registration, you automatically subscribe to ECB's mail outs. You can unsubscribe at any time.



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 W: ecb.com.au
 W: customalloy.com.au



We value your comments

Dear Fitter,

ECB would like to know how you went with the installation of this product. We value your comment and may need to contact you to clarify some details so please complete your contact details clearly.

We would appreciate if you could complete as many of the following details as possible.

Your Name:	Your contact No.
Product Part No.	Product Invoice No.
Product Description:	Make, model, and year of vehicle:
Product Work Order No.	Company your from/Company product purchased from:

Date of Fitment: ____/____/____

Was the fitting hardware supplied complete? Yes No

If no what was not supplied

Did the installation go well? Yes No

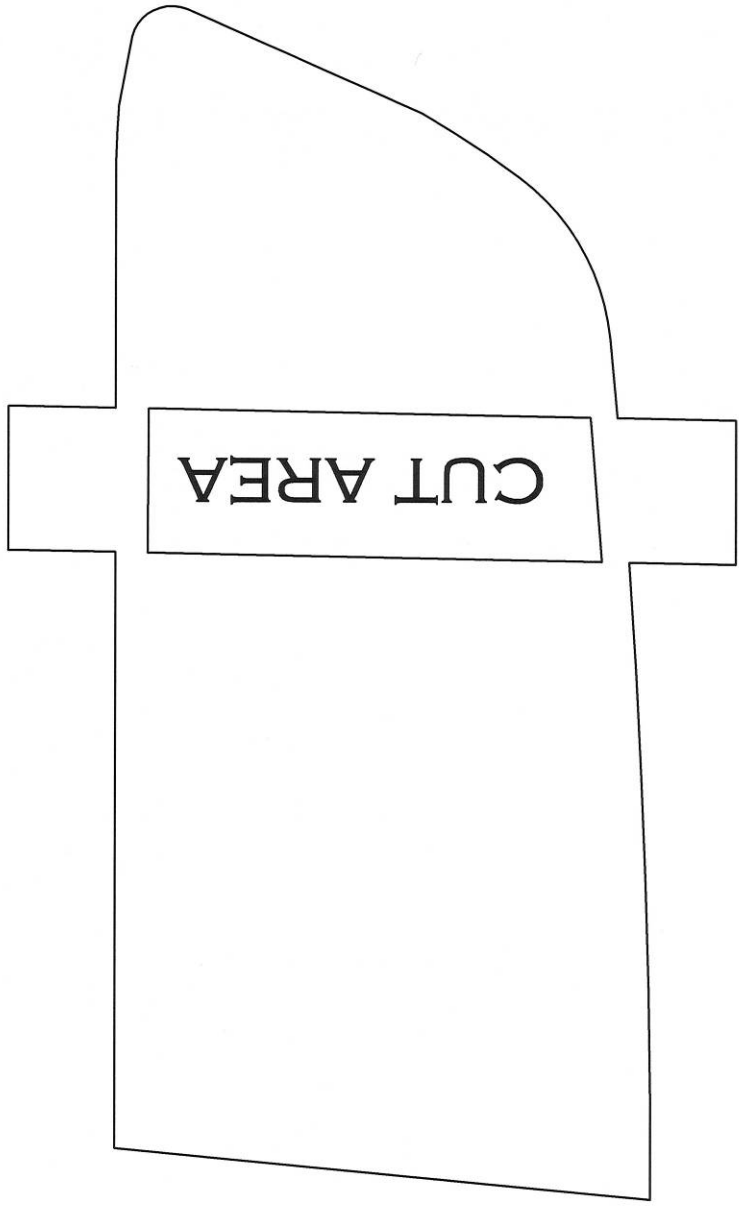
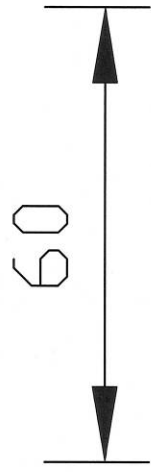
Please provide comments

Please draw diagrams if you need to.

Post to
 Reply Paid 122
 PO Box 122
 Margate QLD 4019

Fax to
 (07) 3283 1168

LOWER GRILLE TEMPLATE
CHECK MEASURE BEFORE
CUTTING TO ENSURE CORRECT SIZING





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P: 07 3897 5700
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W: customalloy.com.au



DESPATCH CHECKLIST NBF163SY

Work Order #		See other side of this page for photos of all mounts
Finish:		
Transport:		
Due Date:		

OC.....1– Steel mounting bracket. Two M8 nutserts to be fixed in holes in top of cross tube

BK.....1 – Bolt Kit.

BK.....1 – 210 x 100 x 2mm Perspex cover (NBF160SY_A2PL)

Ensure Perspex is not damaged in any way.

CAUTION: do not bend or scratch Perspex. Place in own bag, not with bolts and nuts.



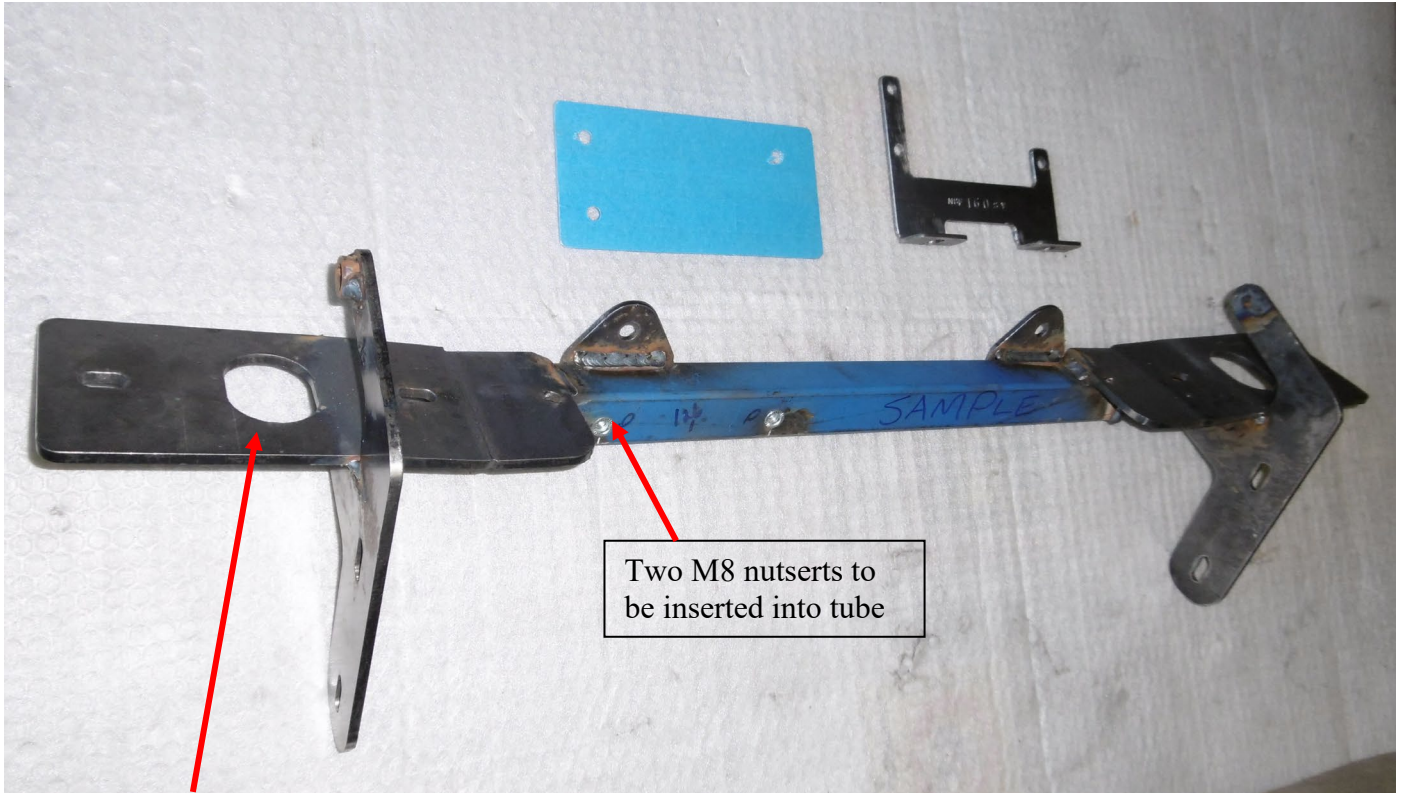
Is this product “the best it can be” Yes
If **NO** fix before continuing

All parts checked and completed by:

Nut and bolts: _____ Date __ / __ / __

Order control: _____ Date __ / __ / __

Final wrap check: _____ Date __ / __ / __



NOTE: Bar mount on inside of hole.

_____/_____
Wrapper's initials / Checker initials